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OM protein - protein search, using sw model

Run on: June 18, 2004, 12:51:28 ; Search time 49 seconds
(without alignments)

1371.238 Million cell updates/sec

Title: US-09-872-364-22

Perfect score: 1276

Sequence: 1 MSKGEELFTGVPIILVELDGVNGKQFVS...ILLEFVTAAGTTHGMDELK 238

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1163542 seqs, 282313646 residues

Total number of hits satisfying chosen parameters: 1163542

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
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14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1276	100.0	238	9	US-09-872-364-22
2	1276	100.0	238	9	US-09-999-745-3
3	1276	100.0	238	12	US-10-460-524-10
4	1276	100.0	238	14	US-10-348-074-36
5	1271	99.6	237	12	US-10-421-285-13
6	1270	99.5	238	9	US-09-872-364-18
7	1267	99.3	238	9	US-09-872-364-20
8	1267	99.3	595	14	US-10-072-036-69
9	1267	99.3	624	14	US-10-072-036-57
10	1267	99.3	916	14	US-10-072-036-73
11	1265	99.1	238	9	US-09-872-364-16
12	1264	99.1	238	14	US-10-133-973-9
13	1263	99.0	236	15	US-10-246-838A-6
14	1263	99.0	238	9	US-09-887-784-8
15	1262	98.9	238	9	US-09-887-784-6

16	1262	98.9	238	12	US-10-296-953-6	Sequence 6, Appli
17	1257	98.5	238	12	US-10-296-953-8	Sequence 8, Appli
18	1251	98.0	238	9	US-09-920-922-4	Sequence 4, Appli
19	1251	98.0	238	9	US-09-852-000-1	Sequence 1, Appli
20	1251	98.0	238	10	US-09-900-345A-125	Sequence 125, App
21	1251	98.0	238	10	US-09-866-538-2	Sequence 2, Appli
22	1251	98.0	238	10	US-09-794-308-2	Sequence 2, Appli
23	1251	98.0	238	10	US-09-865-291-2	Sequence 2, Appli
24	1251	98.0	238	12	US-10-132-067-8	Sequence 8, Appli
25	1251	98.0	238	14	US-10-121-258-10	Sequence 10, Appli
26	1251	98.0	238	14	US-10-221-461-6	Sequence 6, Appli
27	1251	98.0	238	14	US-10-305-765-10	Sequence 10, Appli
28	1251	98.0	238	14	US-10-305-765-159	Sequence 159, App
29	1251	98.0	238	14	US-10-305-633-10	Sequence 10, Appli
30	1251	98.0	238	14	US-10-305-633-159	Sequence 159, App
31	1251	98.0	238	15	US-10-370-570-1	Sequence 1, Appli
32	1251	98.0	238	15	US-10-370-570-53	Sequence 53, Appli
33	1251	98.0	238	16	US-10-423-688A-42	Sequence 42, Appli
34	1251	98.0	238	16	US-10-668-168-4	Sequence 4, Appli
35	1248	97.8	238	16	US-10-668-168-2	Sequence 2, Appli
36	1248	97.8	243	10	US-09-900-345A-60	Sequence 60, Appli
37	1248	97.8	243	10	US-09-900-345A-62	Sequence 62, Appli
38	1248	97.8	243	10	US-09-900-345A-64	Sequence 64, Appli
39	1248	97.8	243	10	US-09-900-345A-66	Sequence 66, Appli
40	1248	97.8	243	10	US-09-900-345A-68	Sequence 68, Appli
41	1248	97.8	243	10	US-09-900-345A-70	Sequence 70, Appli
42	1248	97.8	243	14	US-10-305-765-94	Sequence 94, Appli
43	1248	97.8	243	14	US-10-305-765-96	Sequence 96, Appli
44	1248	97.8	243	14	US-10-305-765-98	Sequence 98, Appli
45	1248	97.8	243	14	US-10-305-765-100	Sequence 100, Appli

ALIGNMENTS

RESULT 1

US-09-872-364-22
; Sequence 22, Application US/09872364
; Patent No. US20020107362A1
; GENERAL INFORMATION:
; APPLICANT: Ole THRASTRUP et al.
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0107P
; CURRENT APPLICATION NUMBER: US/09/872,364
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
; ORGANISM: Aequorea victoria
US-09-872-364-22

Query Match 100.0%; Score 1276; DB 9; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-124;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MSKGEELFTGVPIILVELDGVNGKQFVS	GE	G	D	A	T	G	K	L	F	I	C	T	T	G	K	L	P	V	P	F	T	L	60	
Db	1	MSKGEELFTGVPIILVELDGVNGKQFVS	GE	G	D	A	T	G	K	L	F	I	C	T	T	G	K	L	P	V	P	F	T	L	60	
Qy	61	VTTTSYGVQCFSRYPDHMKQHDFFKSA	ME	G	P	E	G	V	Q	B	R	T	I	F	Y	K	D	G	N	Y	K	T	R	A	E	120
Db	61	VTTTSYGVQCFSRYPDHMKQHDFFKSA	ME	G	P	E	G	V	Q	B	R	T	I	F	Y	K	D	G	N	Y	K	T	R	A	E	120
Qy	121	NRIELKGIDFKEDGNILGHVFNKYN	S	H	N	V	I	M	A	D	K	P	K	N	G	I	K	N	F	K	I	R	N	T	K	180
Db	121	NRIELKGIDFKEDGNILGHVFNKYN	S	H	N	V	I	M	A	D	K	P	K	N	G	I	K	N	F	K	I	R	N	T	K	180
Qy	181	HYQQTPTIGDPVLLPDNHYLSTQSA	L	S	K	D	P	N	E	K	D	H	M	L	L	E	F	T	A	G	I	T	H	G	M	238
Db	181	HYQQTPTIGDPVLLPDNHYLSTQSA	L	S	K	D	P	N	E	K	D	H	M	L	L	E	F	T	A	G	I	T	H	G	M	238

RESULT 2

US-09-999-745-3
; Sequence 3, Application US/09999745
; Patent No. US20020157120A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Baird, Geoffrey
; TITLE OF INVENTION: CIRCULARLY PERMUTED FLUORESCENT PROTEIN INDICATORS
; FILE REFERENCE: REGEN1470-1
; CURRENT APPLICATION NUMBER: US/09/999,745
; CURRENT FILING DATE: 2001-10-23
; PRIOR APPLICATION NUMBER: 09/316,920
; PRIOR FILING DATE: 1999-05-21
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-999-745-3

Query Match 100.0%; Score 1276; DB 9; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-124;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTKLTKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTKLTKFICTTGKLPVWPPTL 60
QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVYQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
DB 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVYQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKVEYNSHNVIYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHMKVEYNSHNVIYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 3

US-10-460-524-10
; Sequence 10, Application US/10460524
; Publication No. US20040029781A1
; GENERAL INFORMATION:
; APPLICANT: Hernan, Ronald A
; APPLICANT: Mehlig, Richard J
; APPLICANT: Broekie, Ian
; APPLICANT: Jenkins, Elizabeth
; TITLE OF INVENTION: Affinity Peptides and Method for Purification of Recombinant Protein
; FILE REFERENCE: SGM 7047.1
; CURRENT APPLICATION NUMBER: US/10/460,524
; CURRENT FILING DATE: 2003-06-12
; PRIOR APPLICATION NUMBER: US 60/388,059
; PRIOR FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-10-460-524-10

Query Match 100.0%; Score 1276; DB 12; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-124;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTKLTKFICTTGKLPVWPPTL 60

DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTKLTKFICTTGKLPVWPPTL 60
QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVYQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
DB 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVYQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKVEYNSHNVIYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHMKVEYNSHNVIYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
RESULT 4
US-10-348-074-36
; Sequence 36, Application US/10348074
; Publication No. US20030176386A1
; GENERAL INFORMATION:
; APPLICANT: Morphotek Inc.
; APPLICANT: Grasso, Luigi
; APPLICANT: Kline, J. Bradford
; APPLICANT: Nicolaides, Nicholas C.
; APPLICANT: Sasse, Philip M.
; TITLE OF INVENTION: Method for Generating Engineered Cells for Locus Specific Gene
; TITLE OF INVENTION: Regulation and Analysis
; FILE REFERENCE: MG0003 US (MOR-0140)
; CURRENT APPLICATION NUMBER: US/10/348,074
; CURRENT FILING DATE: 2003-01-17
; PRIOR APPLICATION NUMBER: 60/349,565
; PRIOR FILING DATE: 2002-01-18
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-10-348-074-36

Query Match 100.0%; Score 1276; DB 14; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-124;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTKLTKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDATYGLTKLTKFICTTGKLPVWPPTL 60
QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVYQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
DB 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVYQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKVEYNSHNVIYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHMKVEYNSHNVIYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 5

US-10-421-285-13
; Sequence 13, Application US/10421285
; Publication No. US20040053836A1
; GENERAL INFORMATION:
; APPLICANT: MayerKuckuk, Phillip
; APPLICANT: Banerjee, Debabrata
; APPLICANT: Bertino, Joseph R.
; TITLE OF INVENTION: Method for Modulating the Production of a Selected Protein In Vivo
; FILE REFERENCE: MSK-P-053
; CURRENT APPLICATION NUMBER: US/10/421,285

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; CURRENT FILING DATE: 2003-04-22
; PRIOR APPLICATION NUMBER: US 60/375,250
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 13
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Aequorea victoria
; US-10-421-285-13

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Query Match	99.6%	Score 1271	DB 12	Length 237
Best Local Similarity	100.0%	Pred. No. 5.5e-124		
Matches 237	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	2	SKGEELFTGVVPIVLVELDGDVNGKFSVSGEGEGDAYGKTLKFCITTGKLPVPMPATLV	61	
DB	1	SKGEELFTGVVPIVLVELDGDVNGKFSVSGEGEGDAYGKTLKFCITTGKLPVPMPATLV	60	
QY	62	TTFSYGVQCFSRYPDHMKQHDFFKSAMPGYVQERTIFYKDDGNKYKTRAEVKEGDTLVN	121	
DB	61	TTFSYGVQCFSRYPDHMKQHDFFKSAMPGYVQERTIFYKDDGNKYKTRAEVKEGDTLVN	120	
QY	122	RTELKGDIFDKEDGNILGHKMEYVNSHNYYIWADKPKNGIKVNFKIRINIKDGSVOLADH	181	
DB	121	RTELKGDIFDKEDGNILGHKMEYVNSHNYYIWADKPKNGIKVNFKIRINIKDGSVOLADH	180	
QY	182	YQONTPIGDGFVLLPNHLYLSTQSALKOPNEKRDHMLLEFVTAAG:THGMDELKY	238	
DB	181	YQONTPIGDGFVLLPNHLYLSTQSALKOPNEKRDHMLLEFVTAAG:THGMDELKY	237	

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RESULT 6
US-09-872-364-18
; Sequence 18, Application US/09872364
; Patent No. US20020107362A1
; GENERAL INFORMATION:
; APPLICANT: Ole THRASTRUP et al
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0107P
; CURRENT APPLICATION NUMBER: US/09/872,364
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-872-364-18

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Query Match	99.5%	Score 1270;	DB 9;	Length 238;
Best Local Similarity	99.5%;	Pred. No. 7e-124;		
Matches 237;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
Qy	1	MSKGELFTGVVPILVELDGDVNGKFSVSGEGGDANYGKLTILKPICTTCKGLVPMPTL	60	
Db	1	MSKGELFTGVVPILVELDGDVNGKFSVSGEGGDANYGKLTILKPICTTCKGLVPMPTL	60	
Qy	61	VTTFSYGVQCFSRYPDHMKQDFFKSAPEGYVQERTIFYKDDGNTKTRAEVKEGDTLV	120	
Db	61	VTTLSYGVQCFSRYPDHMKQDFFKSAPEGYVQERTIFYKDDGNTKTRAEVKEGDTLV	120	
Qy	121	NRIELKGIDFKEDGNILGHKMEYINSHNYIIMADPKNGIKVNFKIRINIKDGSVLAD	180	
Db	121	NRIELKGIDFKEDGNILGHKMEYINSHNYIIMADPKNGIKVNFKIRINIKDGSVLAD	180	
Qy	181	HYQONTPIGDGFLVLPDNNHYLSTOSALKSPKPKRDMILLLEFVTAAGTTHGMDELYK	238	
Db	181	HYQONTPIGDGFLVLPDNNHYLSTOSALKSPKPKRDMILLLEFVTAAGTTHGMDELYK	238	

RESULT 7
US-09-872-364-20

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; Sequence 20, Application US/09872364
; Patent NO. US20020107362A1
; GENERAL INFORMATION:
; APPLICANT: Ole Thrausturp et al.
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0107P
; CURRENT APPLICATION NUMBER: US/09/872,364
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-872-364-20

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Query Match	99.3%;	Score 1267;	DB 9;	Length 238;
Best Local Similarity	99.2%;	Fred. No. 1.4e-123;		
Matches 236;	Conservative 1;	Mismatches 1;	Indels 0;	Gaps 0;
QY	1	MSKGEELFTGWPILVELLDGVNGQKFSVSGEGSDATYGKTLKFICTTGKLPVPWPTL	60	
Db	1	MSKGEELFTGWPILVELLDGVNGQKFSVSGEGSDATYGKTLKFICTTGKLPVPWPTL	60	
QY	61	VTTFSYGVCFSYPDHHKQHDFFKSGMEGVVQERTIFYKDDGNKYTRAEVFEGETLV	120	
Db	61	VTTLTGYQCFSYPDHHKQHDFFKSGMEGVVQERTIFYKDDGNKYTRAEVFEGETLV	120	
QY	121	NRIELKGDIFDEKGNILGHKMEYNYNSHNVYIMADKPKNGIKVNFKI RHNIKGSVQLAD	180	
Db	121	NRIELKGDIFDEKGNILGHKMEYNYNSHNVYIMADKPKNGIKVNFKI RHNIKGSVQLAD	180	
QY	181	HYQONTPTGGCVLLPDNHYLSTQSALSKDPNKRDRHMLLEFVTTAAAGITGHMDELYK	238	
Db	181	HYQONTPTGGCVLLPDNHYLSTQSALSKDPNKRDRHMLLEFVTTAAAGITGHMDELYK	238	

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RESULT 8
US-10-072-036-69
? Sequence 69, Application US/10072036
? Publication NO. US20030082564A1
? GENERAL INFORMATION:
? APPLICANT: Oile THASTRUP
? APPLICANT: Sara BURTON
? APPLICANT: Soren TUGLIN
? APPLICANT: Kasper ALMHOLT
? APPLICANT: Kasper SCUDDER
? TITLE OF INVENTION: A Method For Extracting
? TITLE OF INVENTION: On A Cellular Response
? FILE REFERENCE: 3759-0120P
? CURRENT APPLICATION NUMBER: US/10/072,036
? CURRENT FILING DATE: 2008-09-13
? PRIOR APPLICATION NUMBER: 09/417,197
? PRIOR FILING DATE: 1999-10-07
? NUMBER OF SEQ ID NOS: 143
? SOFTWARE: PatentIn version 3.0
? SEQ ID NO 69
? LENGTH: 595
? TYPE: PRT
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Fusion Construct
US-10-072-036-69

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Query Match	99.3%	Score 1267	DB 14	Length 595
Best Local Similarity	99.2%	Pred. No. 5.3e-123		
Matches 236	Conservative 1	Mismatches 1	Indels 0	Gaps 0
Qy	1	MSKGEELFTGVVPIVLVDGDNQKQSVSGEGDATYKGLTKFICITCKLPVWPFL	60	
Db	355	MSKGEELFTGVVPIVLVDGDNQKQSVSGEGDATYKGLTKFICITCKLPVWPFL	414	
Qy	61	VTTFSYGVQCFSRYPQHMKQHDFFKSAHPGEGVQRRITFFYKDDGNKYRAVKGEGDIAL	120	

Db 415 VTTLTGVCFSRYPDHMKQHDFFKSGAMPEGVYQERTIFYKDDGNKYNKTRAEVKFEGDTLV 474
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNSHNYIMADPKNGIKVNFKIRHNKDGSGVOLAD 180
Db 475 NRIELKGIDFKEDGNILGHMKMEYNSHNYIMADPKNGIKVNFKIRHNKDGSGVOLAD 534
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 535 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 592

RESULT 9

US-10-072-036-57
; Sequence 57, Application US/10072036
; Publication No. US20030082564A1
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP
; APPLICANT: Sara BJRON
; APPLICANT: Soren TULLIN
; APPLICANT: Kasper ALMHOLT
; APPLICANT: Kurt SCUDDER
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
; FILE REFERENCE: 3759-0120P
; CURRENT APPLICATION NUMBER: US/10/072,036
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/417,197
; PRIOR FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 57
; LENGTH: 624
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: MERK1-F64L-S65T-GFP fusion
US-10-072-036-57

Query Match 99.3%; Score 1267; DB 14; Length 624;
Best Local Similarity 99.2%; Pred. No. 5.7e-123;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MSKGEELFTGVPVILVELDGVNGQKFSVSGEGEDATYGKLTCLKFICTTGKLPVWPPTL 60
Db 384 MSKGEELFTGVPVILVELDGVNGQKFSVSGEGEDATYGKLTCLKFICTTGKLPVWPPTL 443
Qy 61 VTTFSYGVCFSRYPDHMKQHDFFKSGAMPEGVYQERTIFYKDDGNKYNKTRAEVKFEGDTLV 120
Db 444 VTTLTGVCFSRYPDHMKQHDFFKSGAMPEGVYQERTIFYKDDGNKYNKTRAEVKFEGDTLV 503
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNSHNYIMADPKNGIKVNFKIRHNKDGSGVOLAD 180
Db 504 NRIELKGIDFKEDGNILGHMKMEYNSHNYIMADPKNGIKVNFKIRHNKDGSGVOLAD 563
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 564 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 621

RESULT 10

US-10-072-036-73
; Sequence 73, Application US/10072036
; Publication No. US20030082564A1
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP
; APPLICANT: Sara BJRON
; APPLICANT: Soren TULLIN
; APPLICANT: Kasper ALMHOLT
; APPLICANT: Kurt SCUDDER
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
; FILE REFERENCE: 3759-0120P

; CURRENT APPLICATION NUMBER: US/10/072,036
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/417,197
; PRIOR FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 73
; LENGTH: 916
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion construct
US-10-072-036-73

Query Match 99.3%; Score 1267; DB 14; Length 916;
Best Local Similarity 99.2%; Pred. No. 9.8e-123;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MSKGEELFTGVPVILVELDGVNGQKFSVSGEGEDATYGKLTCLKFICTTGKLPVWPPTL 60
Db 676 MSKGEELFTGVPVILVELDGVNGQKFSVSGEGEDATYGKLTCLKFICTTGKLPVWPPTL 735
Qy 61 VTTFSYGVCFSRYPDHMKQHDFFKSGAMPEGVYQERTIFYKDDGNKYNKTRAEVKFEGDTLV 120
Db 736 VTTLTGVCFSRYPDHMKQHDFFKSGAMPEGVYQERTIFYKDDGNKYNKTRAEVKFEGDTLV 795
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNSHNYIMADPKNGIKVNFKIRHNKDGSGVOLAD 180
Db 796 NRIELKGIDFKEDGNILGHMKMEYNSHNYIMADPKNGIKVNFKIRHNKDGSGVOLAD 855
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 856 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 913

RESULT 11

US-09-872-364-16
; Sequence 16, Application US/09872364
; Patent No. US20020107362A1
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP et al.
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0107P
; CURRENT APPLICATION NUMBER: US/09/872,364
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-872-364-16

Query Match 99.1%; Score 1265; DB 9; Length 238;
Best Local Similarity 99.2%; Pred. No. 2.3e-123;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MSKGEELFTGVPVILVELDGVNGQKFSVSGEGEDATYGKLTCLKFICTTGKLPVWPPTL 60
Db 1 MSKGEELFTGVPVILVELDGVNGQKFSVSGEGEDATYGKLTCLKFICTTGKLPVWPPTL 60
Qy 61 VTTFSYGVCFSRYPDHMKQHDFFKSGAMPEGVYQERTIFYKDDGNKYNKTRAEVKFEGDTLV 120
Db 61 VTTLSHGVCFSRYPDHMKQHDFFKSGAMPEGVYQERTIFYKDDGNKYNKTRAEVKFEGDTLV 120
Qy 121 NRIELKGIDFKEDGNILGHMKMEYNSHNYIMADPKNGIKVNFKIRHNKDGSGVOLAD 180
Db 121 NRIELKGIDFKEDGNILGHMKMEYNSHNYIMADPKNGIKVNFKIRHNKDGSGVOLAD 180
Qy 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 12

US-10-133-973-9

; Sequence 9, Application US/10133973

; Publication No. US20030149254A1

; GENERAL INFORMATION:

; APPLICANT: Anderson, David

; TITLE OF INVENTION: METHODS AND COMPOSITIONS COMPRISING RENILLA GPP

; FILE REFERENCE: A-68531-3/RMS/CYO

; CURRENT APPLICATION NUMBER: US/10/133,973

; CURRENT FILING DATE: 2002-04-24

; PRIOR APPLICATION NUMBER: US 60/290,287

; PRIOR FILING DATE: 2001-05-10

; PRIOR APPLICATION NUMBER: US 09/710,058

; PRIOR FILING DATE: 2000-11-10

; NUMBER OF SEQ ID NOS: 107

; SOFTWARE: Patent in version 3.1

; SEQ ID NO 9

; LENGTH: 238

; TYPE: PRT

; ORGANISM: Aequorea victoria

US-10-133-973-9

Query Match

Best Local Similarity 99.1%; Score 1264; DB 14; Length 238;

Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKGLTKLFICTTGKLPVWPFTLV 60
DB 1 MSKGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKGLTKLFICTTGKLPVWPFTLV 60
QY 61 VTTFSYGVQCFRSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
DB 61 VTTFSYGVQCFRSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238

RESULT 13

US-10-246-838A-6

; Sequence 6, Application US/10246838A

; Publication No. US20040002156A1

; GENERAL INFORMATION:

; APPLICANT: Greener, Alan L.

; APPLICANT: Hexdall, Lisa Joy

; APPLICANT: Peter-Carstens, Carsten

; APPLICANT: Sarge, Joseph A.

; TITLE OF INVENTION: Selective Cloning of Homoduplex Nucleic Acids

; FILE REFERENCE: 25436/2295

; CURRENT APPLICATION NUMBER: US/10/246,838A

; CURRENT FILING DATE: 2003-03-06

; PRIOR APPLICATION NUMBER: US 10/180,174

; PRIOR FILING DATE: 2002-06-26

; NUMBER OF SEQ ID NOS: 8

; SOFTWARE: Patent in version 3.1

; SEQ ID NO 6

; LENGTH: 236

; TYPE: PRT

; ORGANISM: Aequorea victoria

US-10-246-838A-6

Query Match

Best Local Similarity 99.0%; Score 1263; DB 15; Length 236;

Matches 235; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 KGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKGLTKLFICTTGKLPVWPFTLV 62
|||||

DB 1 KGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKGLTKLFICTTGKLPVWPFTLV 60
QY 63 TFSYGVQCFRSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 122
DB 61 TFSYGVQCFRSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
QY 123 IEKLGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLADHY 182
DB 121 IEKLGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLADHY 180
QY 183 QONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238
DB 181 QONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 236

RESULT 14

US-09-887-784-8

; Sequence 8, Application US/09887784

; Patent No. US20020177189A1

; GENERAL INFORMATION:

; APPLICANT: BJORN, Sara et al

; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS

; FILE REFERENCE: 3759-0115P

; CURRENT APPLICATION NUMBER: US/09/887,784

; CURRENT FILING DATE: 2001-06-19

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: Patent in version 3.0

; SEQ ID NO 8

; LENGTH: 238

; TYPE: PRT

; ORGANISM: Aequorea victoria

US-09-887-784-8

Query Match

Best Local Similarity 99.0%; Score 1263; DB 9; Length 238;

Matches 236; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKGLTKLFICTTGKLPVWPFTLV 60
DB 1 MSKGEELFTGVVPIVLVDGDNVQKFSVSGEGEGDATYKGLTKLFICTTGKLPVWPFTLV 60
QY 61 VTTFSYGVQCFRSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
DB 61 VTTLSYGVQCFRSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDFKEDGNILGHMKMEYNSHNVYIMADPKNGIKVNFKIRHNKDGSVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHILLEFVTAAGITHGMDELYK 238

RESULT 15

US-09-887-784-6

; Sequence 6, Application US/09887784

; Patent No. US20020177189A1

; GENERAL INFORMATION:

; APPLICANT: BJORN, Sara et al

; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS

; FILE REFERENCE: 3759-0115P

; CURRENT APPLICATION NUMBER: US/09/887,784

; CURRENT FILING DATE: 2001-06-19

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: Patent in version 3.0

; SEQ ID NO 6

; LENGTH: 238

; TYPE: PRT

; ORGANISM: Aequorea victoria

US-09-887-784-6

Query Match

Best Local Similarity 98.9%; Score 1262; DB 9; Length 238;

Best Local Similarity 99.2%; Pred. No. 4.8e-123;
 Matches 236; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy	1	MSKGEELFTGVVPIILVELDGVNGQKFSVSGEGDATYGKLTKEICTTGKLPVWPPTL	60
Db	1	MSKGEELFTGVVPIILVELDGVNGQKFSVSGEGDATYGKLTKEICTTGKLPVWPPTL	60
Qy	61	VTFESYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV	120
Db	61	VTTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV	120
Qy	121	NRIELKIDPKEDGNILGHKMEYNSHNHYIMADKPKNGIKVNFKIRHNKDGSVQLAD	180
Db	121	NRIELKIDPKEDGNILGHKMEYNSHNHYIMADKPKNGIKVNFKIRHNKDGSVQLAD	180
Qy	181	HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMILLEFVTAAGITHGMDELYK	238
Db	181	HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMILLEFVTAAGITHGMDELYK	238

Search completed: June 18, 2004, 12:57:23
 Job time : 51 secs

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OM protein - protein search, using sw model

Run on: June 18, 2004, 12:48:48 ; Search time 22 seconds
(without alignments)
558.439 Million cell updates/sec

Title: US-09-872-364-22
Perfect score: 1276
Sequence: 1 MSKGEELFTGVVPIVLDG.....ILLEFVTAAGITHGMDELYK 238

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A COMB.pap.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pap.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pap.*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pap.*
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pap.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match %	Score	Length	ID	Description
1	1276	100.0	238	2	US-08-818-604-32
2	1276	100.0	238	3	US-08-819-612-22
3	1276	100.0	238	4	US-09-316-919-3
4	1276	100.0	238	4	US-09-346-946-32
5	1270	99.5	238	3	US-08-819-612-18
6	1267	99.3	238	3	US-08-819-612-20
7	1267	99.3	595	4	US-09-417-197-69
8	1267	99.3	624	4	US-09-417-197-57
9	1267	99.3	916	4	US-09-417-197-73
10	1265	99.1	238	3	US-08-819-612-16
11	1255	98.4	238	4	US-09-213-343-4
12	1251	98.0	238	1	US-08-337-915A-2
13	1251	98.0	238	3	US-09-121-539-1
14	1251	98.0	238	4	US-09-214-909-2
15	1251	98.0	238	4	US-09-479-645A-10
16	1251	98.0	238	4	US-09-479-645A-159
17	1251	98.0	238	4	US-09-472-065A-4
18	1251	98.0	238	4	US-09-920-922-4
19	1251	98.0	238	5	PCT-US95-14692-2
20	1249	97.9	238	3	US-08-643-704A-49
21	1248	97.8	238	4	US-09-472-065A-2
22	1248	97.8	243	4	US-09-479-645A-94
23	1248	97.8	243	4	US-09-479-645A-96
24	1248	97.8	243	4	US-09-479-645A-98
25	1248	97.8	243	4	US-09-479-645A-100
26	1248	97.8	243	4	US-09-479-645A-102
27	1248	97.8	243	4	US-09-479-645A-104

28	1248	97.8	243	4	US-09-479-645A-110	Sequence 110, Appl
29	1248	97.8	1070	4	US-09-091-042A-2	Sequence 2, Appli
30	1248	97.8	1452	4	US-09-127-227-2	Sequence 2, Appli
31	1247	97.7	238	1	US-08-753-143-2	Sequence 2, Appli
32	1247	97.7	238	2	US-08-679-865-2	Sequence 2, Appli
33	1247	97.7	238	2	US-08-680-876-2	Sequence 2, Appli
34	1247	97.7	238	2	US-08-792-553-2	Sequence 2, Appli
35	1247	97.7	238	3	US-08-753-144-2	Sequence 2, Appli
36	1247	97.7	238	3	US-09-094-359-2	Sequence 2, Appli
37	1247	97.7	238	3	US-09-172-063-2	Sequence 2, Appli
38	1247	97.7	238	3	US-09-263-975-2	Sequence 2, Appli
39	1247	97.7	238	4	US-08-727-452-2	Sequence 2, Appli
40	1247	97.7	238	4	US-09-418-785-1	Sequence 1, Appli
41	1247	97.7	238	4	US-09-129-192C-2	Sequence 2, Appli
42	1247	97.7	238	4	US-09-129-192C-74	Sequence 74, Appl
43	1247	97.7	238	4	US-09-602-641-2	Sequence 2, Appli
44	1247	97.7	238	4	US-09-704-463-2	Sequence 2, Appli
45	1247	97.7	243	4	US-09-479-645A-88	Sequence 88, Appli

ALIGNMENTS

RESULT 1
US-08-818-604-32
; Sequence 32, Application US/08818604C
; Patent No. 5958713
; GENERAL INFORMATION:
; APPLICANT: Thastrup, Ole
; APPLICANT: Tullin, Soren
; APPLICANT: Poulsen, Lars
; TITLE OF INVENTION: A Method Of Detecting Biologically Active Substances
; TITLE OF INVENTION: Active Substances
; FILE REFERENCE: 4301.204-US
; CURRENT APPLICATION NUMBER: US/08/818,604C
; CURRENT FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: 0110/95
; EARLIER FILING DATE: 1995-01-31
; EARLIER APPLICATION NUMBER: 0982/95
; EARLIER FILING DATE: 1995-09-07
; EARLIER APPLICATION NUMBER: PCT/DK96/00052
; EARLIER FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequora victoria
US-08-818-604-32

Query Match	100.0%	Score 1276;	DB 2;	Length 238;
Best Local Similarity	100.0%;	Pred. No. 1.7e-129;		
Matches 238;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MSKGEELFTGVVPIVLDGDNVNGQKFSVSGEGDATYGLTLKFICTTGKLPVWPFL 60		
Db	1	MSKGEELFTGVVPIVLDGDNVNGQKFSVSGEGDATYGLTLKFICTTGKLPVWPFL 60		
Qy	61	VTFPSYGVOCFSRYPDHMKOHDFFKSAMEPEGVQERTIFYKDDGNKTRAEVKFEGDTLV 120		
Db	61	VTFPSYGVOCFSRYPDHMKOHDFFKSAMEPEGVQERTIFYKDDGNKTRAEVKFEGDTLV 120		
Qy	121	NRIELKIDFKEDGNILGHMKWEYNVNSHNVIIMADKPKNGIKVNFKRHNKDGSVQLAD 180		
Db	121	NRIELKIDFKEDGNILGHMKWEYNVNSHNVIIMADKPKNGIKVNFKRHNKDGSVQLAD 180		
Qy	181	HYQNTPIGDSGVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 238		
Db	181	HYQNTPIGDSGVLLPDNHYLSTQSALSADPKNEKRDHMLLEFVTAAGITHGMDELYK 238		

RESULT 2

US-08-819-612-22
; Sequence 22, Application US/08819612D
; Patent No. 6172188
; GENERAL INFORMATION:
; APPLICANT: Thastrup, et al.
; TITLE OF INVENTION: No. 6172188el Fluorescent Proteins
; FILE REFERENCE: No. 6172188el Fluorescent Proteins
; CURRENT APPLICATION NUMBER: US/08/819,612D
; CURRENT FILING DATE: 1997-03-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 22
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-08-819-612-22

Query Match 100.0%; Score 1276; DB 3; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-129;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
QY 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
DB 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
QY 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
DB 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 3
US-09-316-919-3
; Sequence 3, Application US/09316919
; Patent No. 6469154
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Baird, Geoffrey
; TITLE OF INVENTION: FLUORESCENT PROTEIN INDICATORS
; FILE REFERENCE: 07257/073001
; CURRENT APPLICATION NUMBER: US/09/316,919
; CURRENT FILING DATE: 1999-05-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-316-919-3

Query Match 100.0%; Score 1276; DB 4; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-129;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
QY 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
DB 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
QY 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
DB 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
RESULT 4
US-09-346-946-32
; Sequence 32, Application US/09346946
; Patent No. 6566093
; GENERAL INFORMATION:
; APPLICANT: Thastrup, Ole
; APPLICANT: Tullin, Soren
; APPLICANT: Poulsen, Lars
; APPLICANT: Bjorn, Sara
; TITLE OF INVENTION: A Method Of Detecting Biologically
; TITLE OF INVENTION: Active Substances
; FILE REFERENCE: 4301.204-US
; CURRENT APPLICATION NUMBER: US/09/346,946
; CURRENT FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: US/08/818,604
; PRIOR FILING DATE: 1997-03-14
; PRIOR APPLICATION NUMBER: 0110/95
; PRIOR FILING DATE: 1995-01-31
; PRIOR APPLICATION NUMBER: 0982/95
; PRIOR FILING DATE: 1995-09-07
; PRIOR APPLICATION NUMBER: PCT/DK96/00052
; PRIOR FILING DATE: 1996-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-346-946-32

Query Match 100.0%; Score 1276; DB 4; Length 238;
Best Local Similarity 100.0%; Pred. No. 1.7e-129;
Matches 238; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDVNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
QY 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
DB 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKEGDTLV 120
QY 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
DB 121 NRLELKGIDFKEDGNILGHKMEYNYNHNVYIMADPKNGIKVNFIRHNKDGSVQLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 5
US-08-819-612-18
; Sequence 18, Application US/08819612D
; Patent No. 6172188
; GENERAL INFORMATION:
; APPLICANT: Thastrup, et al.
; TITLE OF INVENTION: No. 6172188el Fluorescent Proteins
; FILE REFERENCE: No. 6172188el Fluorescent Proteins
; CURRENT APPLICATION NUMBER: US/08/819,612D
; CURRENT FILING DATE: 1997-03-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 18
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-08-819-612-18


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Query Match      99.5%; Score 1270; DB 3; Length 238;
Best Local Similarity 99.6%; Pred. No. 7.6e-129;
Matches 237; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60

QY 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 61 VTTLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDPKEDGNILGHKMEYNNSHNVIIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDPKEDGNILGHKMEYNNSHNVIIMADPKNGIKVNFKIRHNKDGSVQLAD 180

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMILLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMILLEFVTAAGITHGMDELYK 238

RESULT 6
US-08-819-612-20
; Sequence 20, Application US/08819612D
; Patent No. 6172188
; GENERAL INFORMATION:
; APPLICANT: Thastrup, et al.
; TITLE OF INVENTION: No. 6172188el Fluorescent Proteins
; FILE REFERENCE: No. 6172188el Fluorescent Proteins
; CURRENT APPLICATION NUMBER: US/08/819.612D
; CURRENT FILING DATE: 1997-03-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-08-819-612-20

Query Match      99.3%; Score 1267; DB 3; Length 238;
Best Local Similarity 99.2%; Pred. No. 1.6e-128;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60

QY 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 61 VTTLTGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDPKEDGNILGHKMEYNNSHNVIIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 121 NRIELKGIDPKEDGNILGHKMEYNNSHNVIIMADPKNGIKVNFKIRHNKDGSVQLAD 180

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMILLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMILLEFVTAAGITHGMDELYK 238

RESULT 7
US-09-417-197-69
; Sequence 69, Application US/09417197
; Patent No. 6518021
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP, et al.
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
; FILE REFERENCE: 3759-0110P
; CURRENT APPLICATION NUMBER: US/09/417,197
; CURRENT FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
```

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; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 69
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion Construct
US-09-417-197-69

Query Match      99.3%; Score 1267; DB 4; Length 595;
Best Local Similarity 99.2%; Pred. No. 6.3e-128;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
DB 355 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 414

QY 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 415 VTTLTGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 474

QY 121 NRIELKGIDPKEDGNILGHKMEYNNSHNVIIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 475 NRIELKGIDPKEDGNILGHKMEYNNSHNVIIMADPKNGIKVNFKIRHNKDGSVQLAD 534

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMILLEFVTAAGITHGMDELYK 238
DB 535 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMILLEFVTAAGITHGMDELYK 592

RESULT 8
US-09-417-197-57
; Sequence 57, Application US/09417197
; Patent No. 6518021
; GENERAL INFORMATION:
; APPLICANT: Ole THASTRUP, et al.
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An Ir
; FILE REFERENCE: 3759-0110P
; CURRENT APPLICATION NUMBER: US/09/417,197
; CURRENT FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 57
; LENGTH: 624
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: MERK1-F64L-S65T-GFP fusion
US-09-417-197-57

Query Match      99.3%; Score 1267; DB 4; Length 624;
Best Local Similarity 99.2%; Pred. No. 6.8e-128;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
DB 384 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 443

QY 61 VTTFSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 444 VTTLTGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 503

QY 121 NRIELKGIDPKEDGNILGHKMEYNNSHNVIIMADPKNGIKVNFKIRHNKDGSVQLAD 180
DB 504 NRIELKGIDPKEDGNILGHKMEYNNSHNVIIMADPKNGIKVNFKIRHNKDGSVQLAD 563

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMILLEFVTAAGITHGMDELYK 238
DB 564 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMILLEFVTAAGITHGMDELYK 621

RESULT 9
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US-09-417-197-73
; Sequence 73, Application US/09417197
; Patent No. 6518021
; GENERAL INFORMATION:
; APPLICANT: Ole Thastrup, et al.
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An
; TITLE OF INVENTION: On A Cellular Response
; FILE REFERENCE: 3759-0110P
; CURRENT APPLICATION NUMBER: US/09/417,197
; CURRENT FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 73
; LENGTH: 916
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion construct
US-09-417-197-73
Query Match 99.3%; Score 1267; DB 4; Length 916;
Best Local Similarity 99.2%; Pred. No. 1.2e-127;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
DB 676 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 735
QY 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 736 VTTILSGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 795
QY 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180
DB 796 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 855
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 856 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 513
RESULT 10
US-08-819-612-16
; Sequence 16, Application US/08819612D
; Patent No. 6172188
; GENERAL INFORMATION:
; APPLICANT: Thastrup, et al.
; TITLE OF INVENTION: No. 6172188el Fluorescent Proteins
; FILE REFERENCE: No. 6172188el Fluorescent Proteins
; CURRENT APPLICATION NUMBER: US/08/819,612D
; CURRENT FILING DATE: 1997-03-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-08-819-612-16
Query Match 99.1%; Score 1265; DB 3; Length 238;
Best Local Similarity 99.2%; Pred. No. 2.6e-128;
Matches 236; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
QY 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 61 VTTILSGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180

DB 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
RESULT 11
US-09-213-343-4
; Sequence 4, Application US/09213343
; Patent No. 6316252
; GENERAL INFORMATION:
; APPLICANT: Harms, Jerome S.
; APPLICANT: Splitter, Gary A.
; TITLE OF INVENTION: Biotherapeutic Delivery System
; FILE REFERENCE: 960296.95564
; CURRENT APPLICATION NUMBER: US/09/213,343
; CURRENT FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-213-343-4
Query Match 98.4%; Score 1255; DB 4; Length 238;
Best Local Similarity 98.3%; Pred. No. 3.1e-127;
Matches 234; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 1 MSKGEELFTGVVPIVLVDGVDNGQKFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVDNGHKTFSVSGEGDGYGKLTILKFICTTGKLPVWPPTL 60
QY 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
DB 61 VTTFSYGVCFSRYPDHMKQHDFFKSAPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
QY 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180
DB 121 NRIELKGIDFKEDGNILGHMKMEYNNSHNVIYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180
QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
RESULT 12
US-08-337-915A-2
; Sequence 2, Application US/08337915A
; Patent No. 5625048
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Heim, Roger
; TITLE OF INVENTION: MODIFIED GREEN FLUORESCENT PROTEINS
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Robbins, Berliner & Carson
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90012
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/337,915A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

NAME: Spitals, John P.
REGISTRATION NUMBER: 29,215
REFERENCE/DOCKET NUMBER: 1279-178
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 977-1001
TELEFAX: (213) 977-1003
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 238 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-337-915A-2

Query Match 98.0%; Score 1251; DB 1; Length 238;
Best Local Similarity 97.5%; Pred. No. 8.5e-127;
Matches 232; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60

QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
DB 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDFKEDGNILGHKLEYNNSHVYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180
DB 121 NRIELKGIDFKEDGNILGHKLEYNNSHVYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 13
US-09-121-539-1
; Sequence 1, Application US/09121539B
; Patent No. 6194548
; GENERAL INFORMATION:
; APPLICANT: Osumi, Takashi
; APPLICANT: Teukamoto, Toshiro
; APPLICANT: Teukamoto, No. 6194548iyo
; APPLICANT: Yamasaki, Masatoshi
; TITLE OF INVENTION: GREEN FLUORESCENT PROTEINS AND BLUE FLUORESCENT
; TITLE OF INVENTION: PROTEINS
; FILE REFERENCE: 046124-5005
; CURRENT APPLICATION NUMBER: US/09/121,539B
; PRIOR FILING DATE: 1998-07-24
; PRIOR APPLICATION NUMBER: JP 026418/1998
; PRIOR FILING DATE: 1998-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Aequorea victoria
; FEATURE:
; OTHER INFORMATION: Green fluorescent protein
US-09-121-539-1

Query Match 98.0%; Score 1251; DB 3; Length 238;
Best Local Similarity 97.5%; Pred. No. 8.5e-127;
Matches 232; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60

QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
DB 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDFKEDGNILGHKLEYNNSHVYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180
DB 121 NRIELKGIDFKEDGNILGHKLEYNNSHVYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 14
US-09-214-909-2
; Sequence 2, Application US/09214909
; Patent No. 6486382
; GENERAL INFORMATION:
; APPLICANT: GORDON-KAMM, WILLIAM
; APPLICANT: PIERCE, DOROTHY A.
; APPLICANT: BOWEN, BENJAMIN
; APPLICANT: BIDNEY, DENNIS
; APPLICANT: ROSS, MARGIT
; APPLICANT: SCHELONGE, CHRISTOPHER
; APPLICANT: MILLER, MICHAEL D.
; APPLICANT: SANDAHL, GARY
; APPLICANT: WANG, LIJUAN
; TITLE OF INVENTION: USE OF THE GREEN FLUORESCENT PROTEIN AS A SCREENABLE
; TITLE OF INVENTION: MARKER FOR PLANT TRANSFORMATION
; FILE REFERENCE: 033229/0682
; CURRENT APPLICATION NUMBER: US/09/214,909
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US97/07688
; PRIOR FILING DATE: 1997-05-01
; PRIOR APPLICATION NUMBER: 60/016,345
; PRIOR FILING DATE: 1996-05-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic GFP
US-09-214-909-2

Query Match 98.0%; Score 1251; DB 4; Length 238;
Best Local Similarity 97.5%; Pred. No. 8.5e-127;
Matches 232; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSKGEELFTGVVPIVLVDGVNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60
DB 1 MSKGEELFTGVVPIVLVDGVNGKFSVSGEGEDATYGLTLKFKICTTGKLPVWPPTL 60

QY 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120
DB 61 VTTFSGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFYKDDGNKYKTRAEVKFEGDTLV 120

QY 121 NRIELKGIDFKEDGNILGHKLEYNNSHVYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180
DB 121 NRIELKGIDFKEDGNILGHKLEYNNSHVYIMADPKNGIKVNFKIRHNKIDGVSQVLAD 180

QY 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238
DB 181 HYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK 238

RESULT 15
US-09-479-645A-10
; Sequence 10, Application US/09479645A
; Patent No. 6489141
; GENERAL INFORMATION:
; APPLICANT: FRAZER, Ian Hector
; APPLICANT: ZHOU, Jian
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCE AND METHOD FOR SELECTIVELY
; TITLE OF INVENTION: EXPRESSING A PROTEIN IN A TARGET CELL OR TISSUE
; FILE REFERENCE: 210338.0001/LUS

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; CURRENT APPLICATION NUMBER: US/09/479,645A
; CURRENT FILING DATE: 2000-01-07
; PRIOR APPLICATION NUMBER: PCT/AU98/00530
; PRIOR FILING DATE: 1998-07-09
; PRIOR APPLICATION NUMBER: AU P07765
; PRIOR FILING DATE: 1997-07-09
; PRIOR APPLICATION NUMBER: AU P09467
; PRIOR FILING DATE: 1997-09-11
; NUMBER OF SEQ ID NOS: 219
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Aequorea
; OTHER INFORMATION: victoria gfp gene (humanized)
US-09-479-645A-10

Query Match          98.0%; Score 1251; DB 4; Length 238;
Best Local Similarity 97.5%; Pred.No. 8.5e-127;
Matches 232; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      1  MSKGELEFTGVVPIVLVELDGVNGQKFSVSGEGEGDATYVKLTILKFTCTGKLPVNPETL 60
Db      1  MSKGELEFTGVVPIVLVELDGVNGHGFVSVEGEGDATYVKLTILKFTCTGKLPVNPETL 60

QY      61  VTTFSGVQCFSRYPDHMKQHDFFPKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120
Db      61  VTTFSGVQCFSRYPDHMKQHDFFPKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLV 120

QY      121  NRTELKGDIDPKEDGNILGHMEYNNYNSHNYIMADKPKNGIKVNFKIRHNKDGSVQLAD 180
Db      121  NRTELKGDIDFKEDGNILGHLEYNNSHNYIMADKQKNGIKVNFKIRHNIEDGVSQVLAD 180

QY      181  HYQONTPIGDGFVLLPDNHYLSTQSALSQKDPNEKRDHMLLEFVTAAGITHGMDELYK 238
Db      181  HYQONTPIGDGFVLLPDNHYLSTQSALSQKDPNEKRDHMLLEFVTAAGITHGMDELYK 238

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Search completed: June 18, 2004, 12:52:31
Job time : 23 secs